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| (L10 or L11 or L12) and (automat\$6 same(synchroniz\$ near failure)) | 0 |

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| | | | |
|------------|--|-------|------------|
| <u>L14</u> | (L10 or L11 or L12) and (automat\$6 same(synchroniz\$ near failure)) | 0 | <u>L14</u> |
| <u>L13</u> | (L10 or L11 or L12) and (synchroniz\$ near failure) | 3 | <u>L13</u> |
| <u>L12</u> | (L7 or L8 or L9) and L1 | 4 | <u>L12</u> |
| <u>L11</u> | L6 and L3 | 6 | <u>L11</u> |
| <u>L10</u> | L5 and L3 | 2 | <u>L10</u> |
| <u>L9</u> | 709/219.ccls. | 3038 | <u>L9</u> |
| <u>L8</u> | 709/217.ccls. | 3228 | <u>L8</u> |
| <u>L7</u> | 709/248.ccls. | 541 | <u>L7</u> |
| <u>L6</u> | 709/\$.ccls. | 36594 | <u>L6</u> |
| <u>L5</u> | 707/\$.ccls. | 26943 | <u>L5</u> |
| <u>L4</u> | L3 and ((automat\$6 near recovery) same (synchroniz\$ near failure)) | 0 | <u>L4</u> |
| <u>L3</u> | l2 and ((automat\$6 near recovery) same synchroniz\$) | 78 | <u>L3</u> |
| <u>L2</u> | l1 and (automat\$6 near recovery) | 90 | <u>L2</u> |
| <u>L1</u> | automat\$6 same recovery same synchroniz\$ | 769 | <u>L1</u> |

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| L3 and ((automat\$6 near recovery) same (synchroniz\$ near failure)) | 0 |

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| | | | |
|-----------|--|-----|-----------|
| <u>L4</u> | L3 and ((automat\$6 near recovery) same (synchroniz\$ near failure)) | 0 | <u>L4</u> |
| <u>L3</u> | l2 and ((automat\$6 near recovery) same synchroniz\$) | 78 | <u>L3</u> |
| <u>L2</u> | l1 and (automat\$6 near recovery) | 90 | <u>L2</u> |
| <u>L1</u> | automat\$6 same recovery same synchroniz\$ | 769 | <u>L1</u> |

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| L9 and L2 | 0 |

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| | | | |
|------------|--|-----|------------|
| <u>L11</u> | L9 and L2 | 0 | <u>L11</u> |
| <u>L10</u> | L9 and L1 | 0 | <u>L10</u> |
| <u>L9</u> | L8 and synchroniz\$6 | 28 | <u>L9</u> |
| <u>L8</u> | (effective near action) and database | 133 | <u>L8</u> |
| <u>L7</u> | (effective near action) same database | 2 | <u>L7</u> |
| <u>L6</u> | effective near action near database | 0 | <u>L6</u> |
| <u>L5</u> | "synchronizing states" | 751 | <u>L5</u> |
| <u>L4</u> | L1 and L2 | 0 | <u>L4</u> |
| <u>L3</u> | creat\$ same (action near database) same synchroniz\$6 | 1 | <u>L3</u> |
| <u>L2</u> | creat\$ same (action near database) same account\$3 | 15 | <u>L2</u> |
| <u>L1</u> | (updat\$3 or chang\$3) same database same (indicat\$4 near action) | 131 | <u>L1</u> |

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| L5 and L8 | 0 |

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| | | | |
|------------|--|-----|------------|
| <u>L14</u> | L5 and l8 | 0 | <u>L14</u> |
| <u>L13</u> | L2 and l5 | 0 | <u>L13</u> |
| <u>L12</u> | 709/248.ccls. | 541 | <u>L12</u> |
| <u>L11</u> | L9 and L2 | 0 | <u>L11</u> |
| <u>L10</u> | L9 and L1 | 0 | <u>L10</u> |
| <u>L9</u> | L8 and synchroniz\$6 | 28 | <u>L9</u> |
| <u>L8</u> | (effective near action) and database | 133 | <u>L8</u> |
| <u>L7</u> | (effective near action) same database | 2 | <u>L7</u> |
| <u>L6</u> | effective near action near database | 0 | <u>L6</u> |
| <u>L5</u> | "synchronizing states" | 751 | <u>L5</u> |
| <u>L4</u> | L1 and L2 | 0 | <u>L4</u> |
| <u>L3</u> | creat\$ same (action near database) same synchroniz\$6 | 1 | <u>L3</u> |
| <u>L2</u> | creat\$ same (action near database) same account\$3 | 15 | <u>L2</u> |
| <u>L1</u> | (updat\$3 or chang\$3) same database same (indicat\$4 near action) | 131 | <u>L1</u> |

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IEEE JNL IEEE Journal or
Magazine

IEE JNL IEE Journal or
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IEEE CNF IEEE Conference
Proceeding

IEE CNF IEE Conference
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IEE JNL IEE Journal or Magazine

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IEEE STD IEEE Standard

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Panos K. Chrysanthis, Krithi Ramamritham

September 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 3

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Keywords: concurrency control, correctness criteria, semantics, serializability theory, transaction models

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